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ABSTRACT

This bibliography is intended to provide carefully chosen materials that may be of aid to legislators, staff professionals, and the general public in obtaining some insight into the realm of information technology and systems, including computers, telecommunications, microform systems, audio and video devices, and the so-called "analytical approach." The bibliographic items listed comprise both "classics" in this field and publications of more recent vintage, as well as reference materials and general periodicals dealing with these topics. Citations are listed under nine headings: (1) Information Technology Tools and Techniques; (2) Information Technology and Governmental Management; (3) Information Technology and the Legislator; (4) Information Technology and Business; (5) Information Technology and Society; (6) Information Technology and International Activities; (7) Information Technology and the Future; (8) Information Technology Bibliographies, Encyclopedias, Thesauri, Dictionaries, and Directories; and (9) Information Technology Periodicals. Numerous official hearings, reports, and committee prints are listed, and highlighted topics include such problem areas as the right to privacy, research and development reporting, information access and policy, and legislator reliance on information services. Library of Congress call numbers are provided for items for which they are available. (BBM)

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CRS REPORT FOR CONGRESS

INFORMATION TECHNOLOGY IN OUR TIME: SELECTED REFERENCES

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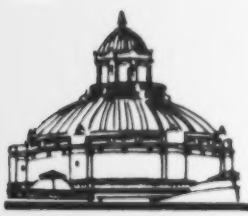

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INFORMATION TECHNOLOGY IN OUR TIME: SELECTED REFERENCES

SUMMARY

The significant increases in the creation and use of advanced information technologies and services is affecting institutions in both public and private sectors, and the entire population of our Nation. This report reflects this trend, emphasizing the emergence of computers and telecommunications, as contained in a wide range of books, periodical writings, and congressional studies.

The references are organized under the following categories:

- Information Technology Tools and Techniques
- Information Technology and Government Management
- Information Technology and the Legislator
- Information Technology and Business
- Information Technology and Society
- Information Technology and International Activities
- Information Technology and the Future
- Information Technology Bibliographies, Encyclopedias, Thesauri, Dictionaries, and Directories
- Information Technology Periodicals

This compilation of sources items provides both an overview of and selective insight into the applications and implications of information technology in our time.

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INFORMATION TECHNOLOGY IN OUR TIME: SELECTED REFERENCES

Nowhere in the world today have the utilization and application of computers and other "information technologies" been greater than in American society. During the past quarter-century, information-based tools, techniques, and systems have been incorporated into nearly every aspect of our Nation's day-to-day operations. From getting a weekly paycheck to transacting bank business, purchasing groceries to charging luxuries, visiting the doctor for an examination to motivating children in a classroom, working on the job to running a home-based personal computer, information technology is fulfilling key roles in such processes. America truly has entered into Herman Kahn's "Post-industrial Society."

As this technology continues to grow, there has evolved a recognized need for the Nation's leadership, professionals, academics, and citizenry to understand the many uses of computers, telecommunications, microform systems, audio and video devices, and the so-called "analytical approach." While there currently exists a wealth of monographs, scholarly texts, and periodical articles in these areas, the purpose of this bibliography is to provide carefully chosen materials that may be of aid to legislators, staff professionals, and the general public in obtaining some insight into the realm of information technology and systems.

The bibliographic items included in this text are comprised of noted "classics" in the field of information technology and systems, while others are of more recent vintage. Each of the cited items is placed, for ease of use, into one of the several categories listed below. The Library of Congress call

numbers are given, where available, at the right side of each bibliographic entry. Due to the ever-increasing amount of professional journals and magazines dealing with the topics under discussion, a ninth section covering general periodicals has been included.

-- INFORMATION TECHNOLOGY TOOLS AND TECHNIQUES

-- INFORMATION TECHNOLOGY AND GOVERNMENTAL MANAGEMENT

-- INFORMATION TECHNOLOGY AND THE LEGISLATOR

-- INFORMATION TECHNOLOGY AND BUSINESS

-- INFORMATION TECHNOLOGY AND SOCIETY

-- INFORMATION TECHNOLOGY AND INTERNATIONAL ACTIVITIES

-- INFORMATION TECHNOLOGY AND THE FUTURE

-- INFORMATION TECHNOLOGY BIBLIOGRAPHIES, ENCYCLOPEDIAS, THESAURI, DICTIONARIES, AND DIRECTORIES

-- INFORMATION TECHNOLOGY PERIODICALS

Congress, as well as the Federal executive branch, long has been interested in the configurations, applications, and processes of information systems. The inclusion of numerous official hearings, reports, and committee prints reflects the Federal Government's concern for such topics as hardware acquisition, software standards, systems design and applications, and manpower utilization. Coinciding with the increased use and impact of this array of information technologies has been the emergence of a variety of socio-economic and political problems. Highlighted among the following bibliographic sections are such problem areas as the right to privacy, research and development reporting, information access and policy, and legislator reliance on information services.

Thus, this infrastructure of source items will provide both an overview of and selective insight into the applications and implications of information technology in our time.

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